

1/35

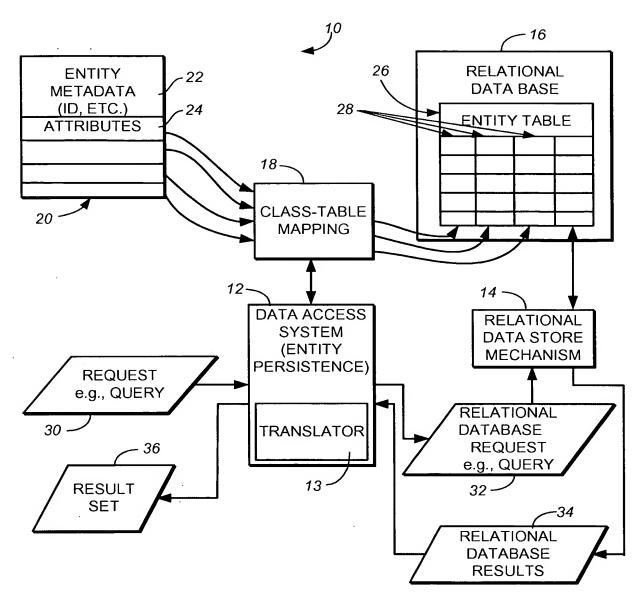
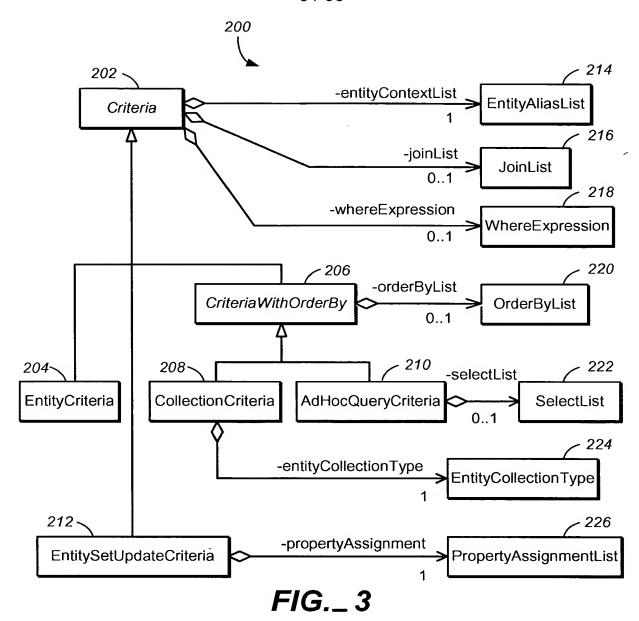
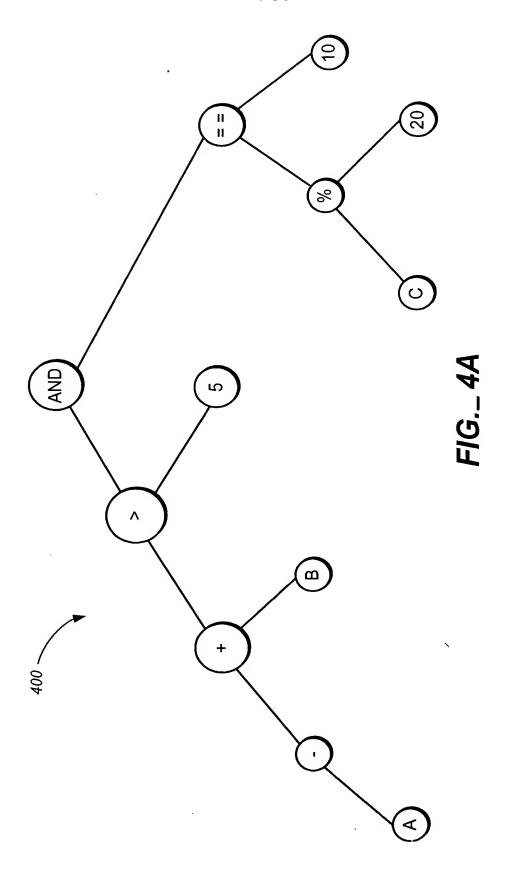
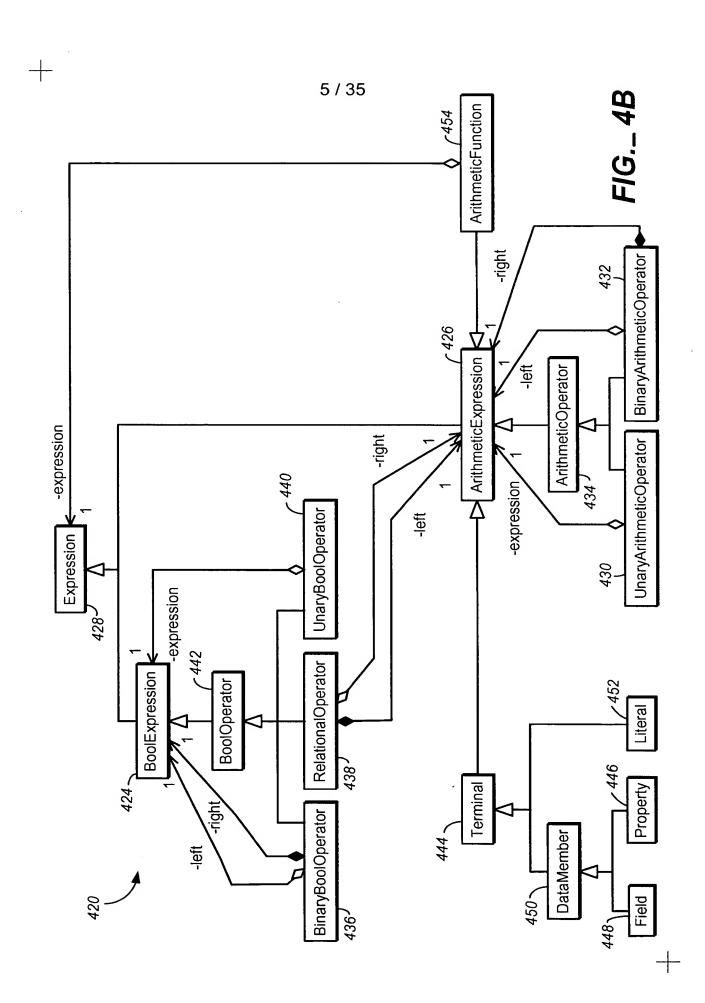


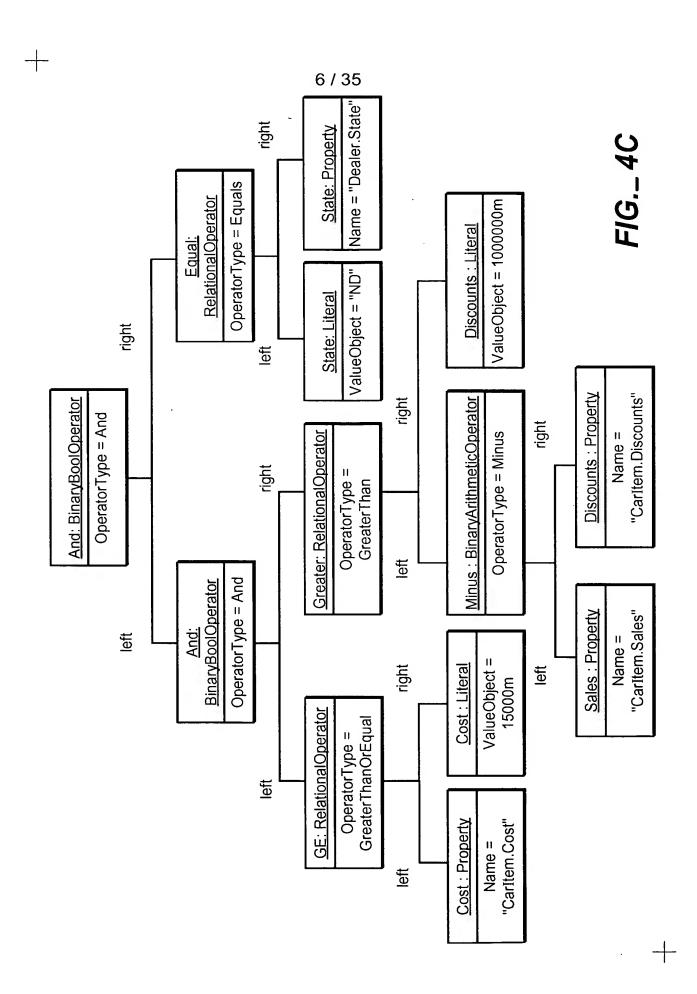
FIG._1

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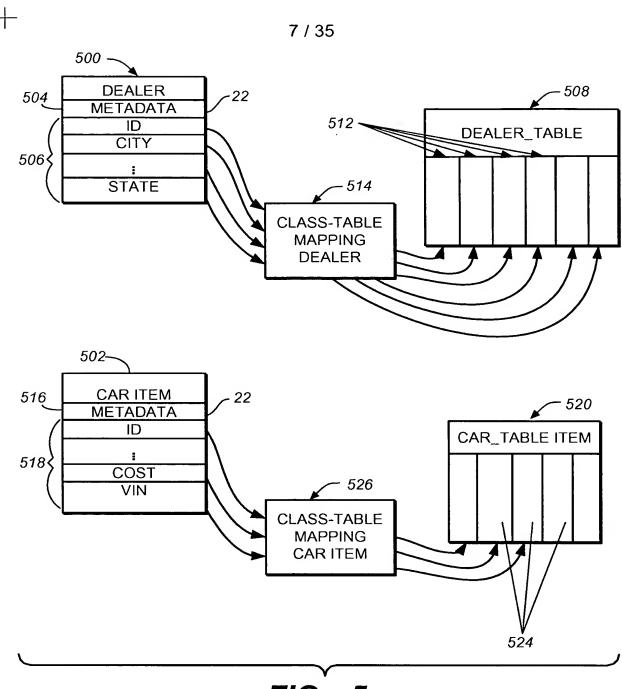


FIG._ 5

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```
class CarItem {
                  // these properties are mapped to a database table
      public string ID
      public string Vin;
      public string Color;
      public decimal Cost;
      ... many others omitted ...
class Dealer {
                  // these properties are mapped to a different database table
      public string ID;
      public string City;
      public string State;
      ... many others omitted ...
}
AdHocQueryCriteria adHocCriteria = Criteria. AdHocQueryCriteria(
      Criteria. Entity Aliases ( // describes the objects involved in the query
            Criteria.EntityAlias(itemParentKey, typeof(CarItem))
             Criteria. Entity Alias (dealer Parent Key, type of (Dealer)),
      Criteria.JoinList(
                   /* entity to entity join */
            Criteria.InnerJoin("CarItem", "Dealer",
             (Property)"Carltem.DealerID" == (Property)"Dealer.ID")),
      Criteria.Select(
                                // the specific properties to retrieve
            (Property)"CarItem.ID", // references the field in the above class
             (Property)"CarItem.Vin",
             (Property)"CarItem.Cost",
             (Property)"Dealer.ID",
             (Property)"Dealer.City"
            (Property)"Dealer.State"),
      Criteria.Where(
            (Property)"CarItem.Make" == "Geo" &&
            (Property)"CarItem.Model" == "Prism" &&
             (Property)"Dealer.State" == "ND")
      Criteria.OrderBy((Property)"Dealer.Cost"));
```

FIG._ 6

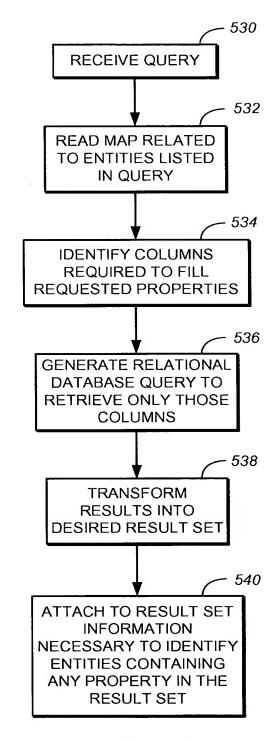


FIG._ 7

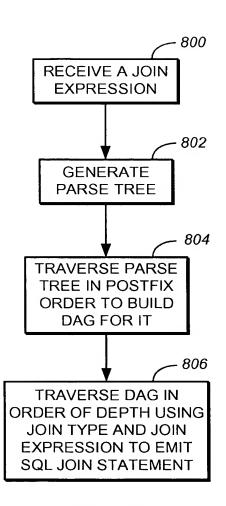
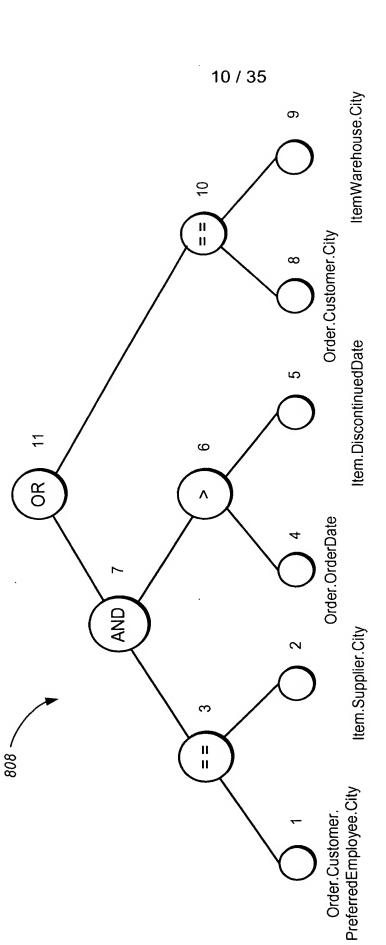
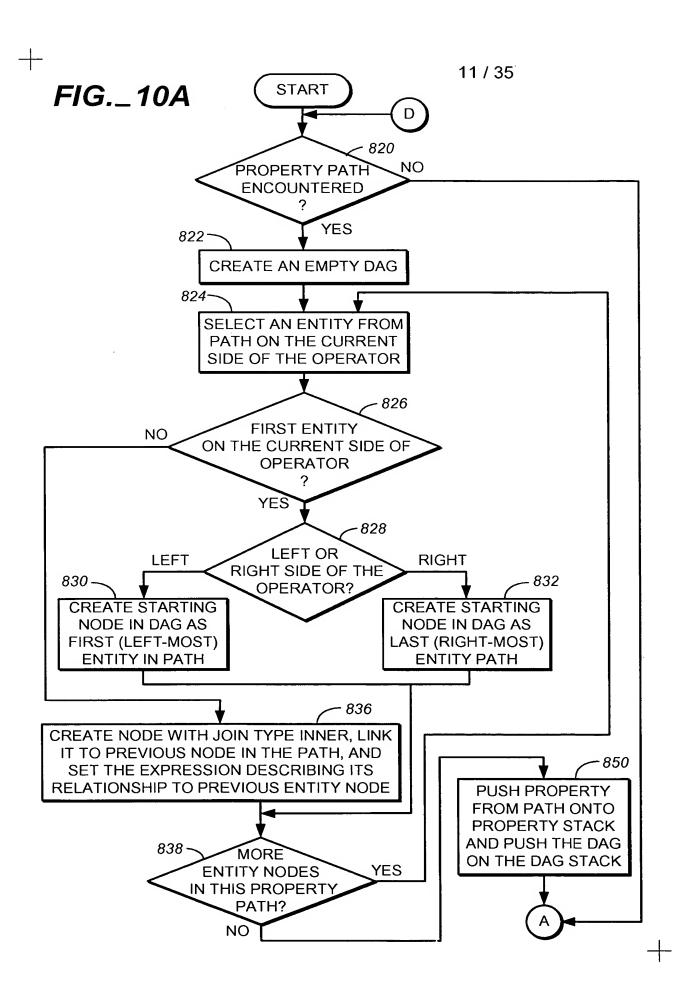


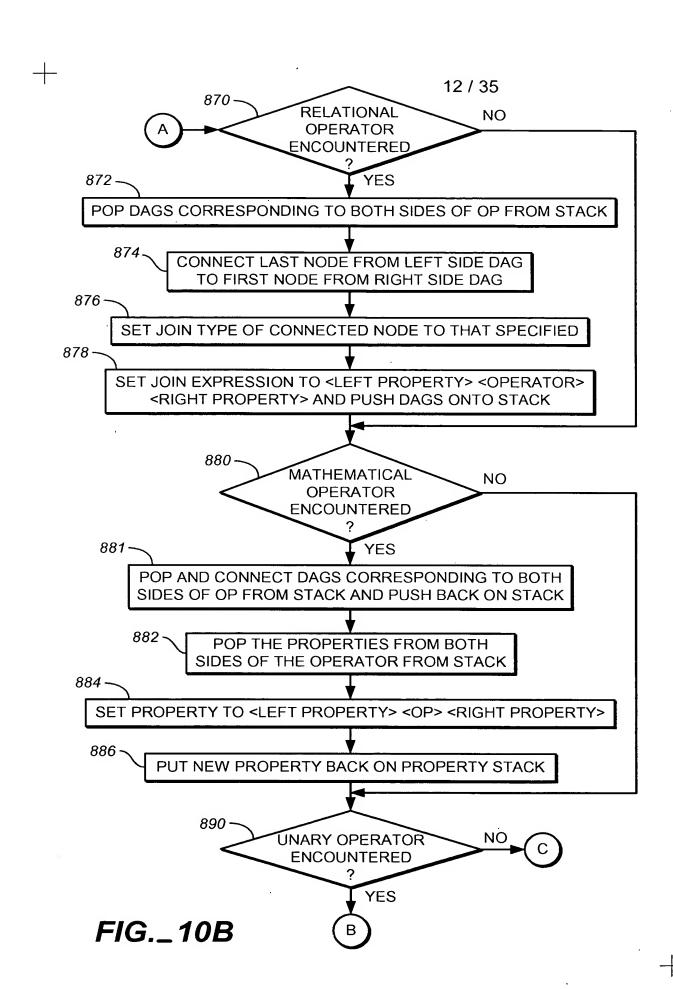
FIG._ 8

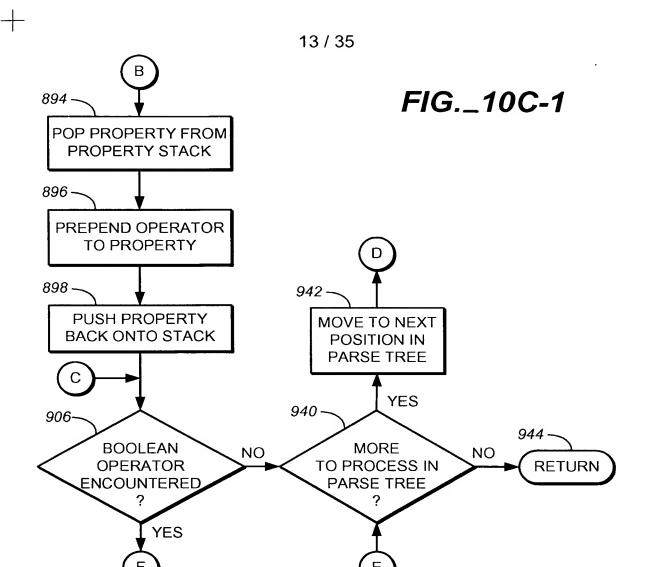
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F/G._ 9







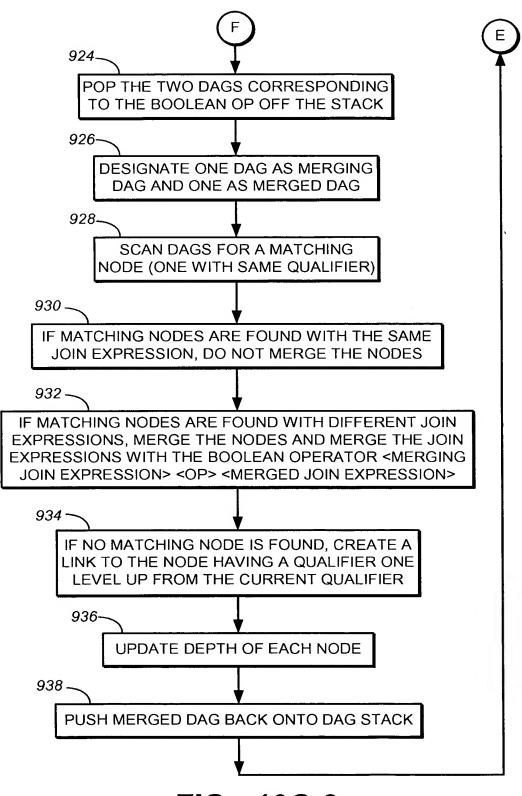
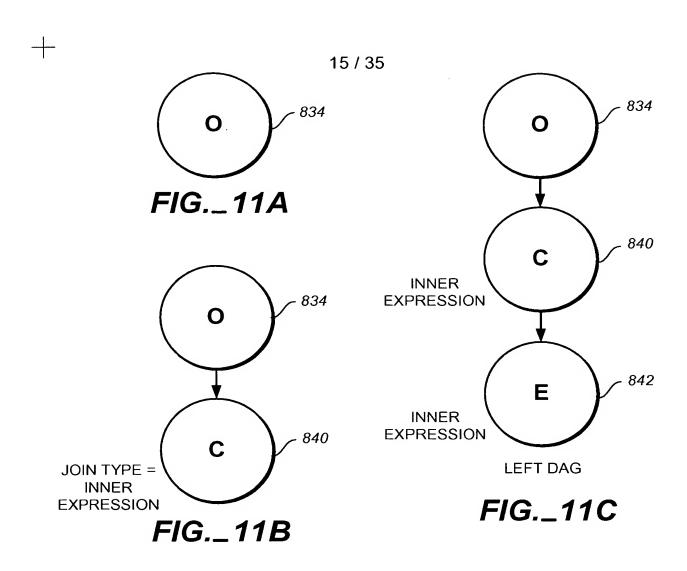
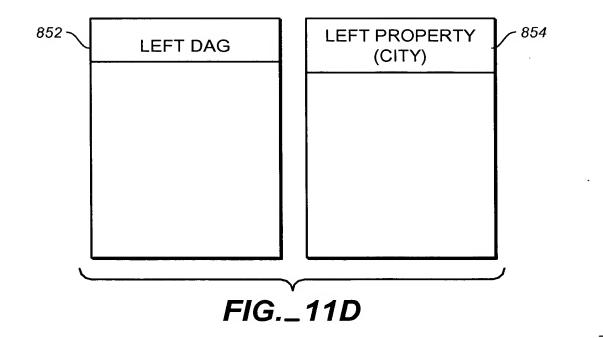


FIG._10C-2





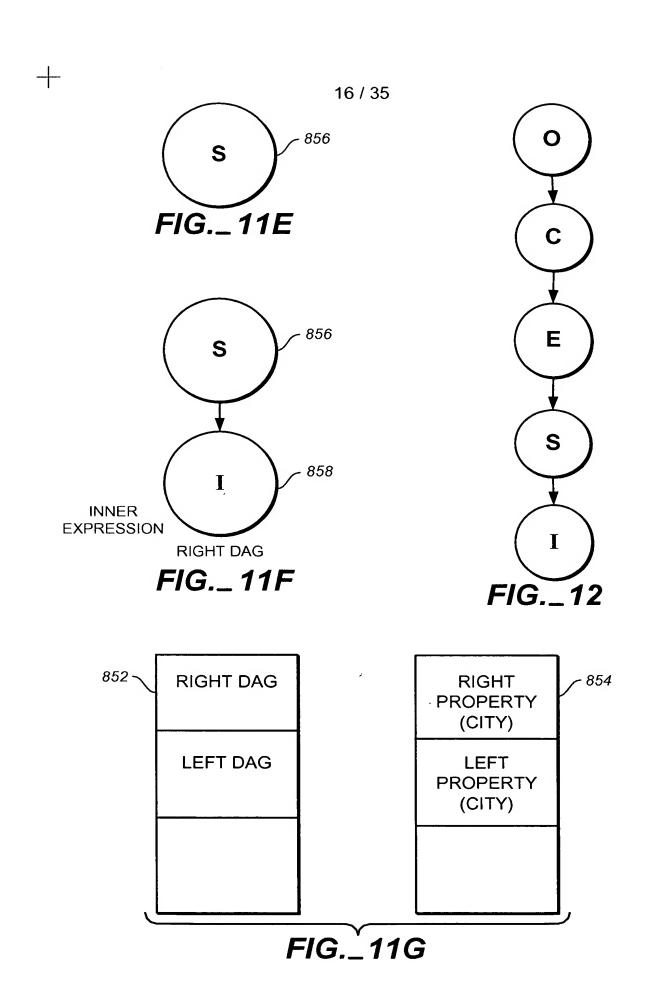
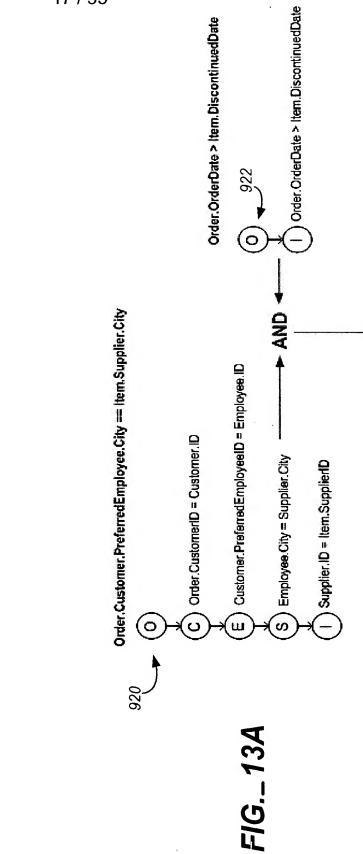
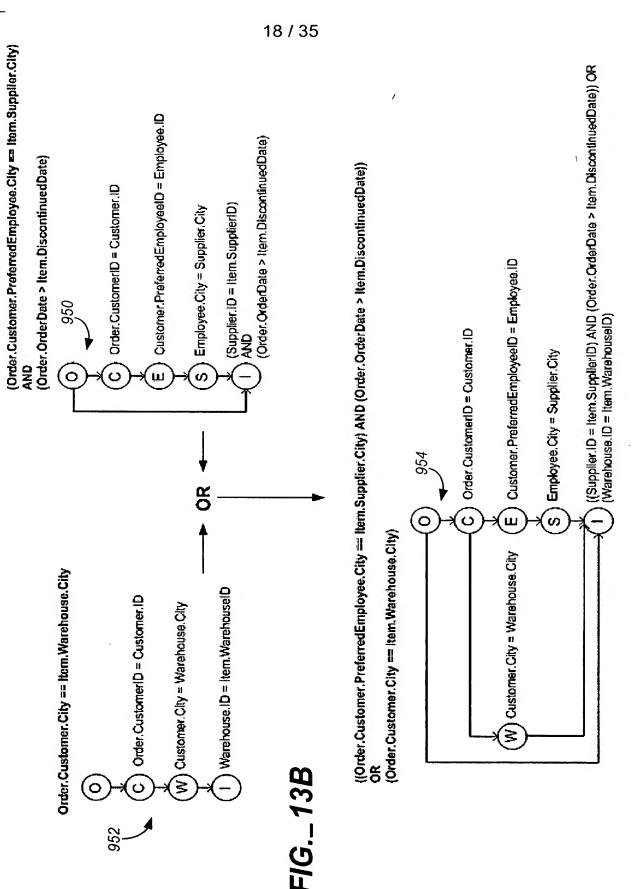
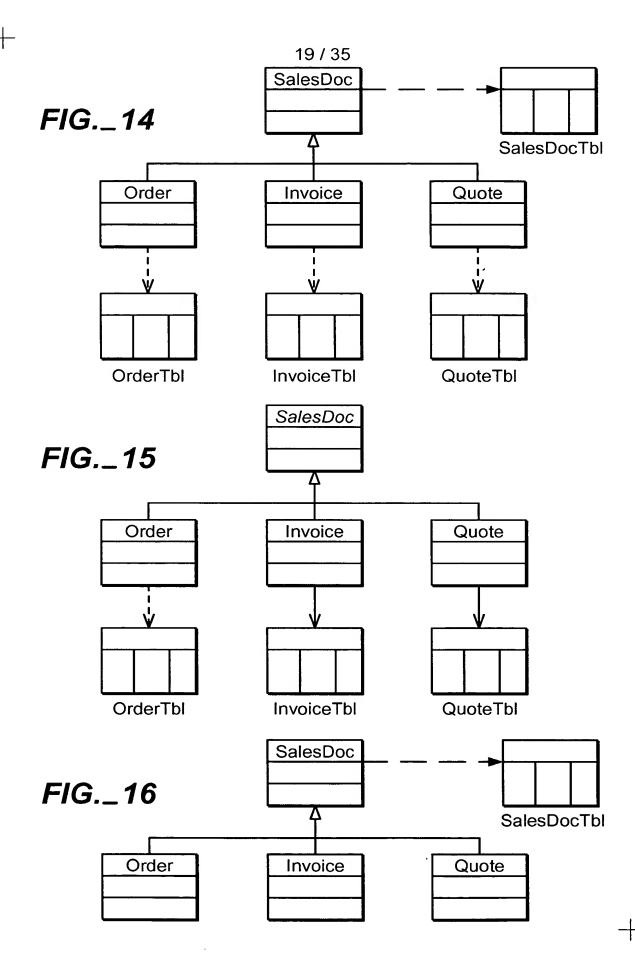
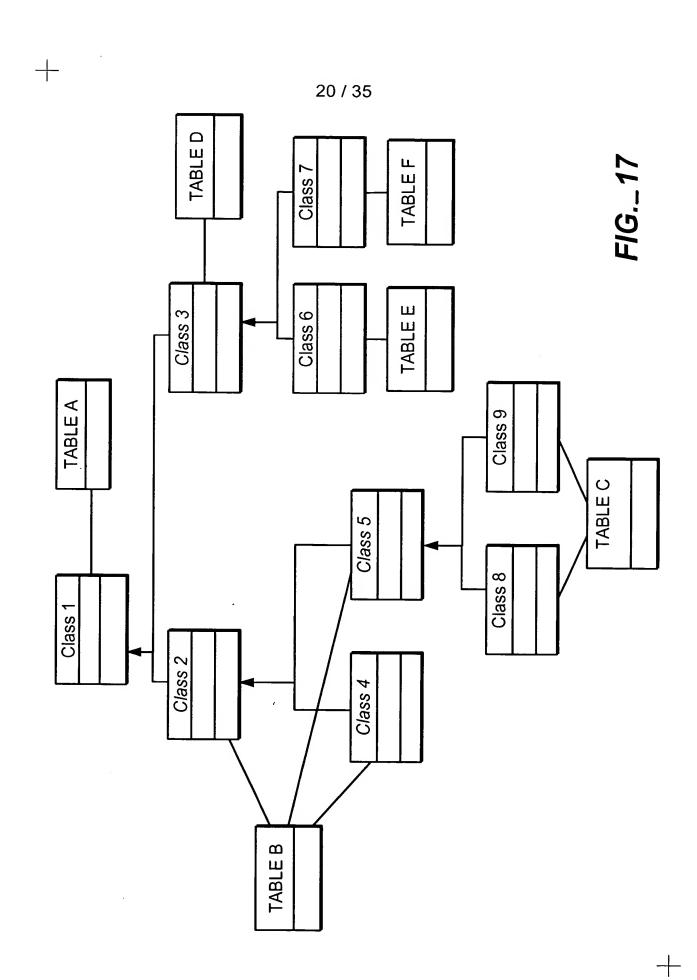


FIG._ 13B









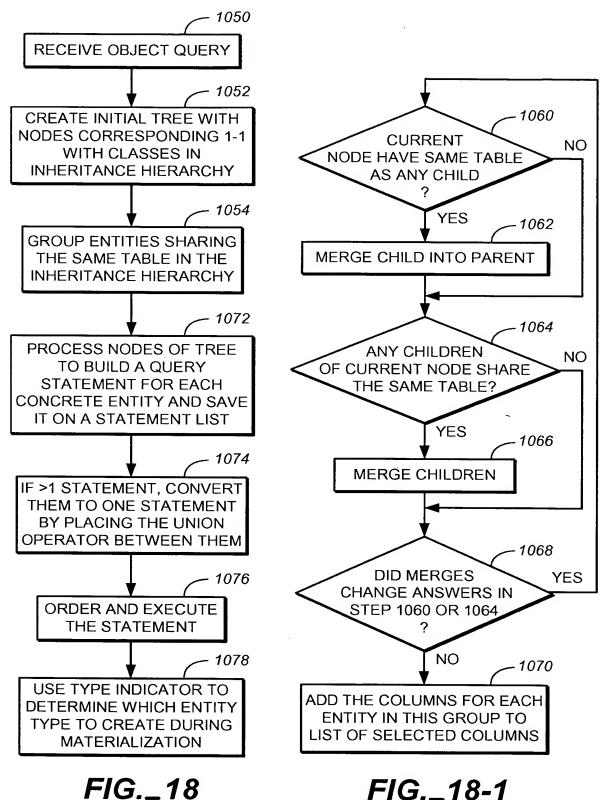


FIG._18-1

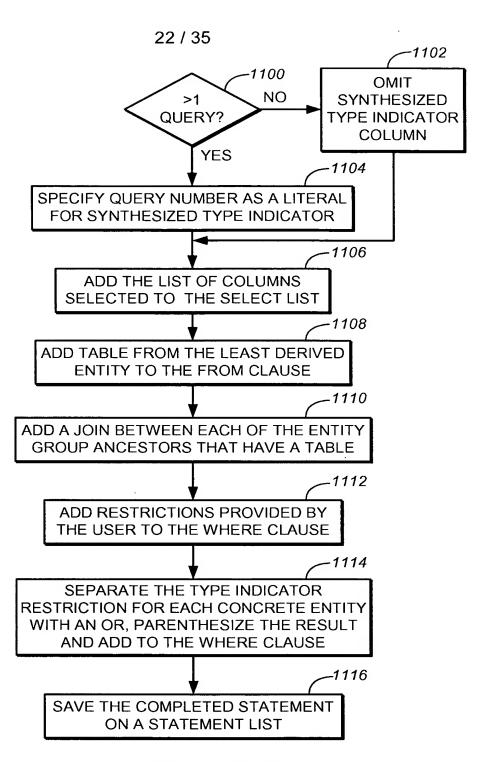
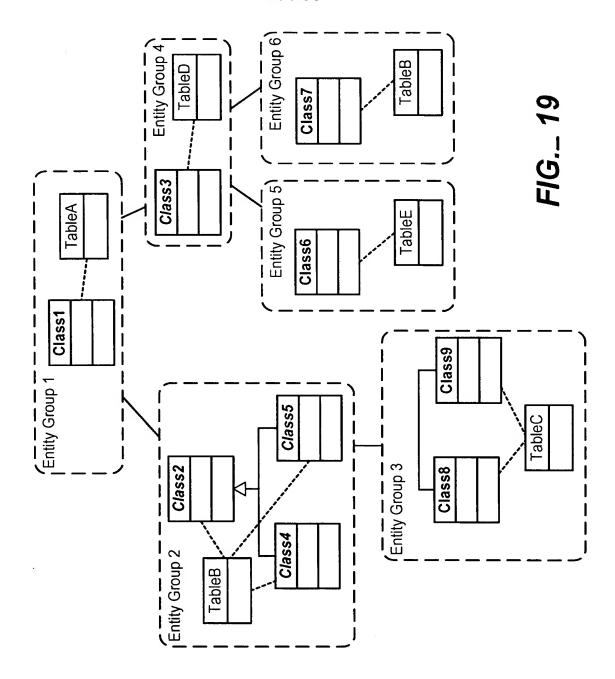


FIG._18-2



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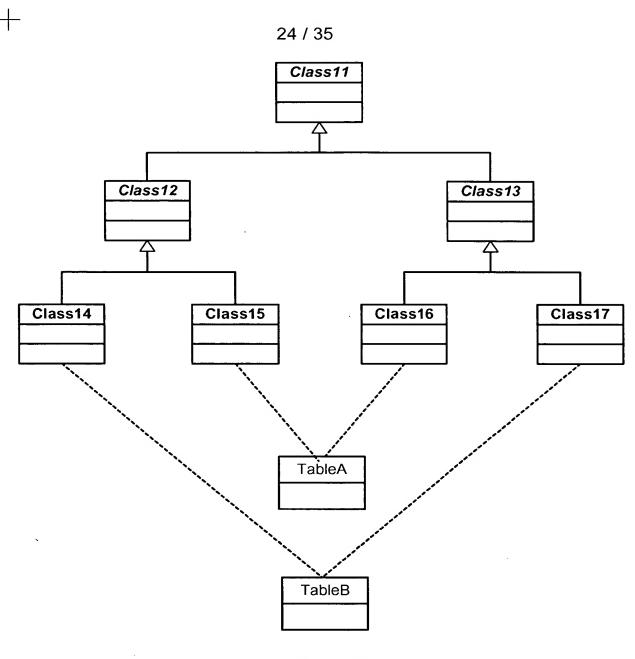


FIG._ 20

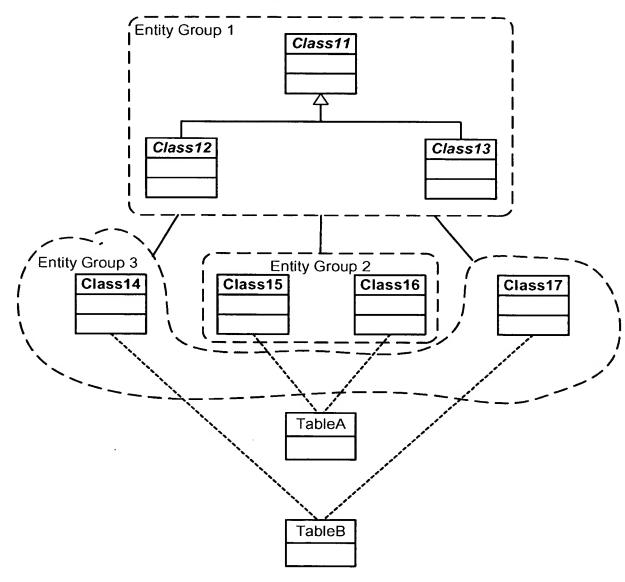
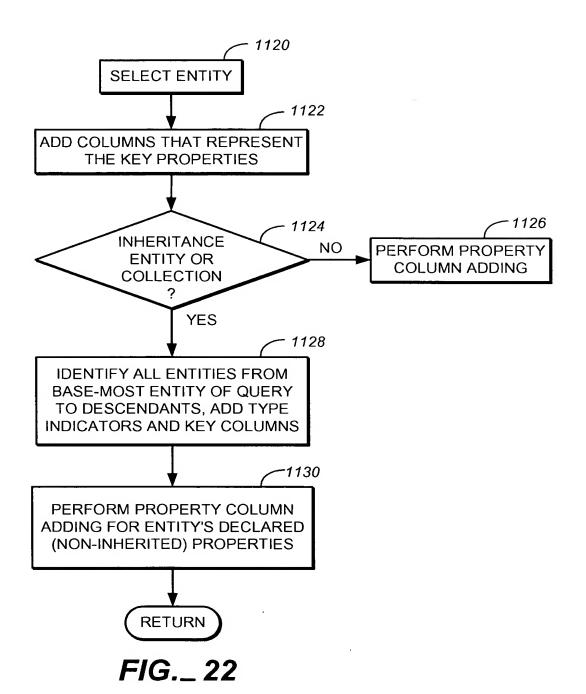
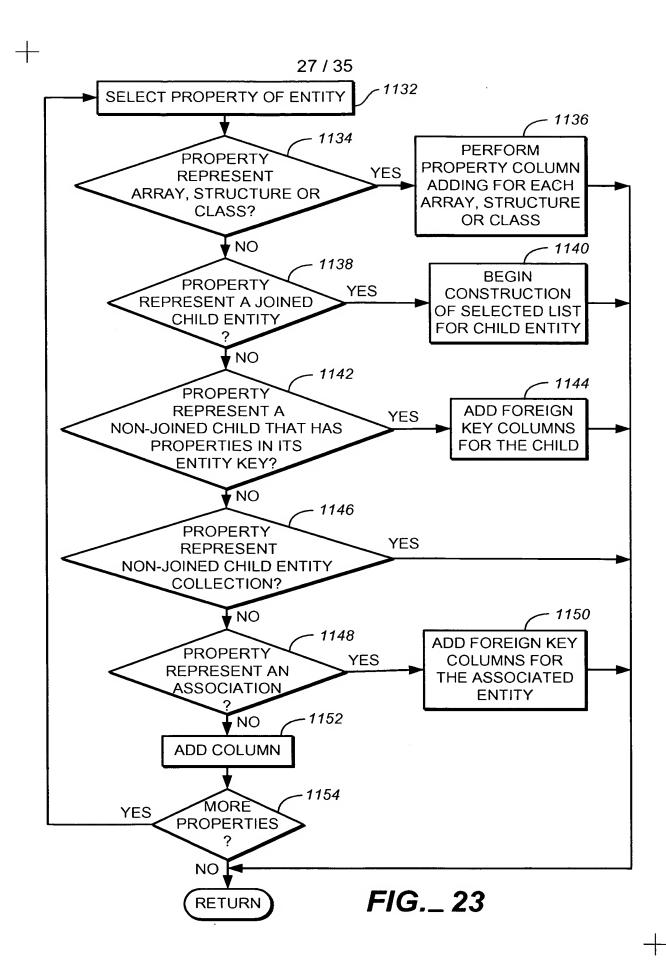


FIG._ 21





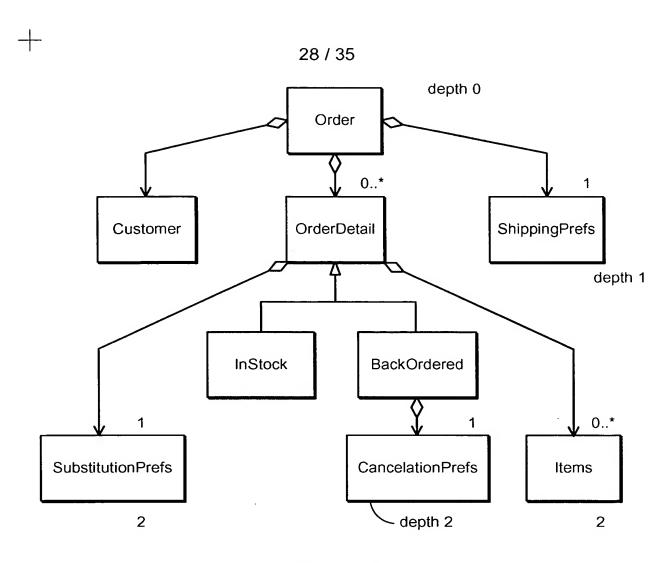
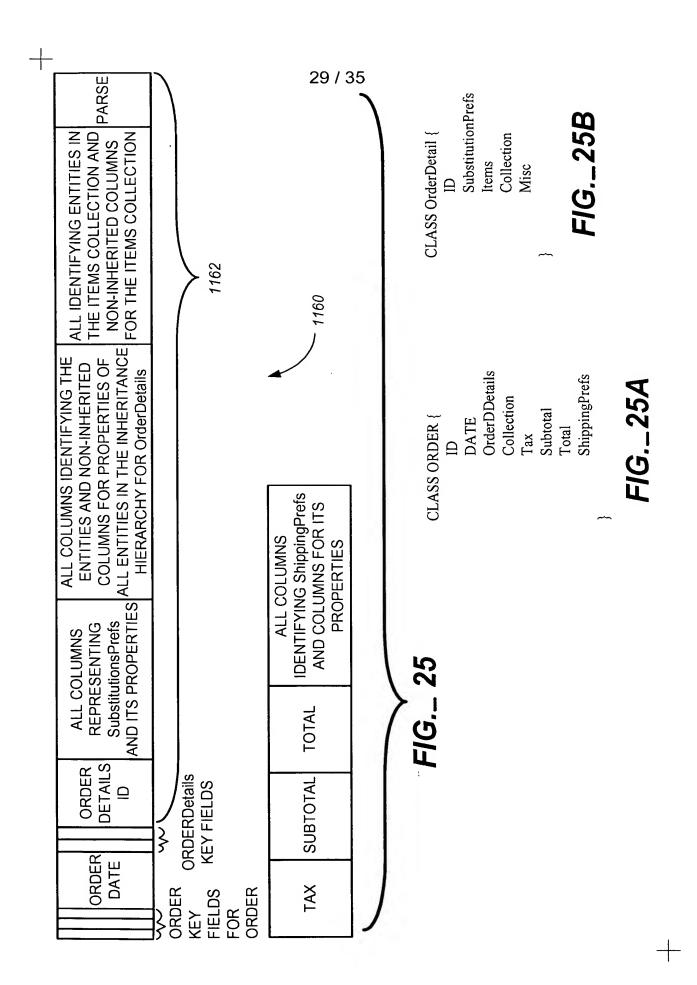


FIG._ 24

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```
1002
       class Order {
                              // these fields are mapped to a database table public string ID;
           public DetailCollection Details; // contains Detail objectspublic decimal Total;}
       class Detail {
                          // these fields are mapped to a database table
1004
           public long SequenceNumber;
           public Item Item;
           public decimal PricePerUnit;
           public decimal Quantity;
           public decimal Price;
1006
                                                     // PricePerUnit * Quantity}
       // the user describes the set operation they want performed in terms of objects
      Criteria. EntitySetUpdateCriteria(Criteria. EntityAlias(parentKey, typeof(Order))),
1010 // update the order// set Order. Total to the sum of each of the line item's price
           Criteria. Property Assignments (Criteria. Assignment ((Property)" Order. Total",
       Criteria.Sum((Property)"Order.Details[].Price")
       // indicates which orders to update; only those with detail price > 300
           Criteria. Where ((Property)" Order. Order Details []. Price" > 300),)
```

FIG._ 26

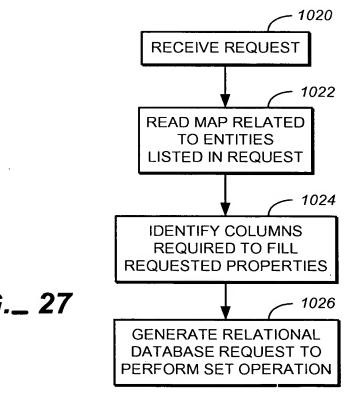
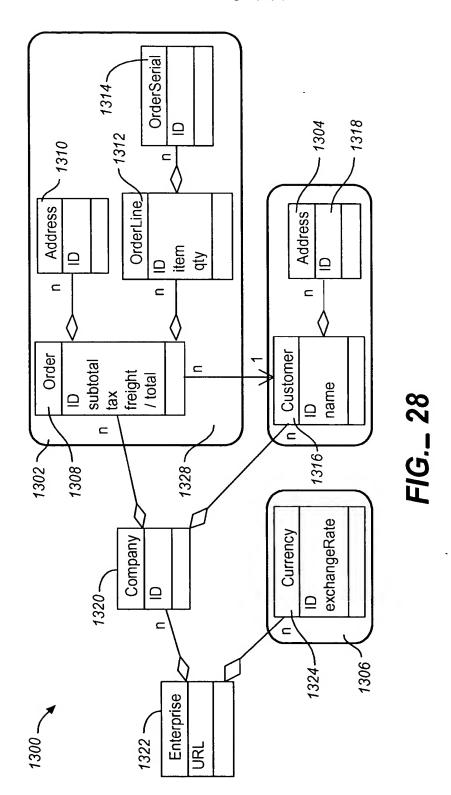
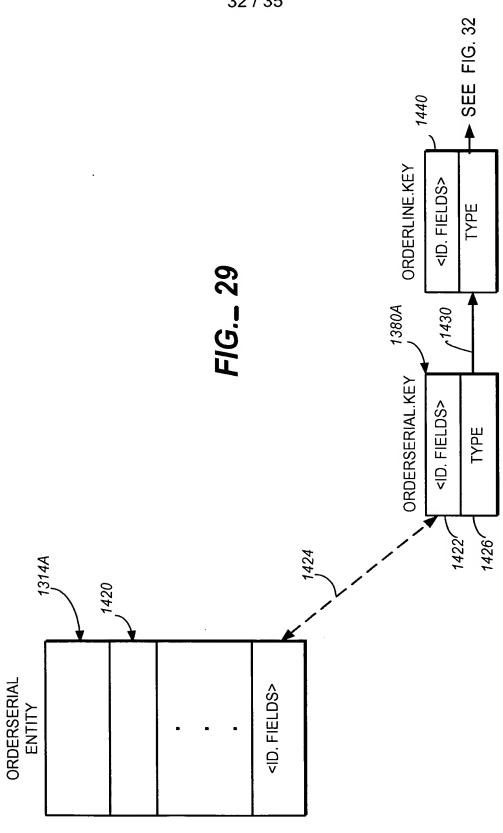


FIG._ 27





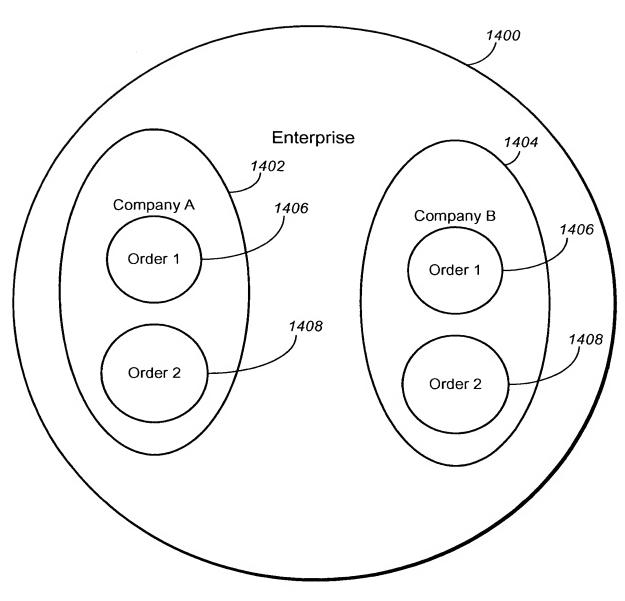
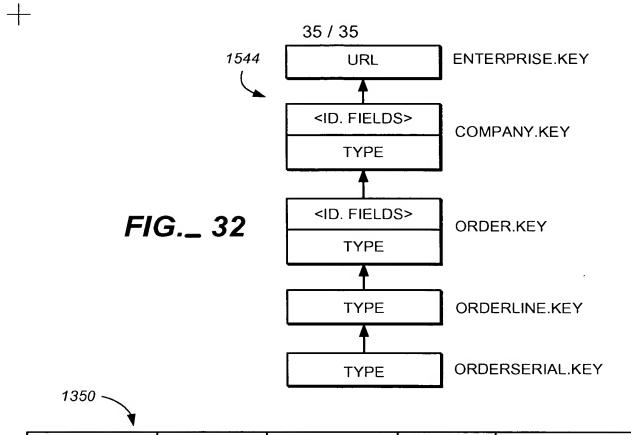


FIG._ 30



COMPANY_ID 1352	ORDER_ID 1354	ORDERLINE_ID 1356	SERIAL NO. 1358	OTHER COLUMNS	
•	•	-	-		•
-	•	•	-	•	•

FIG._ 33